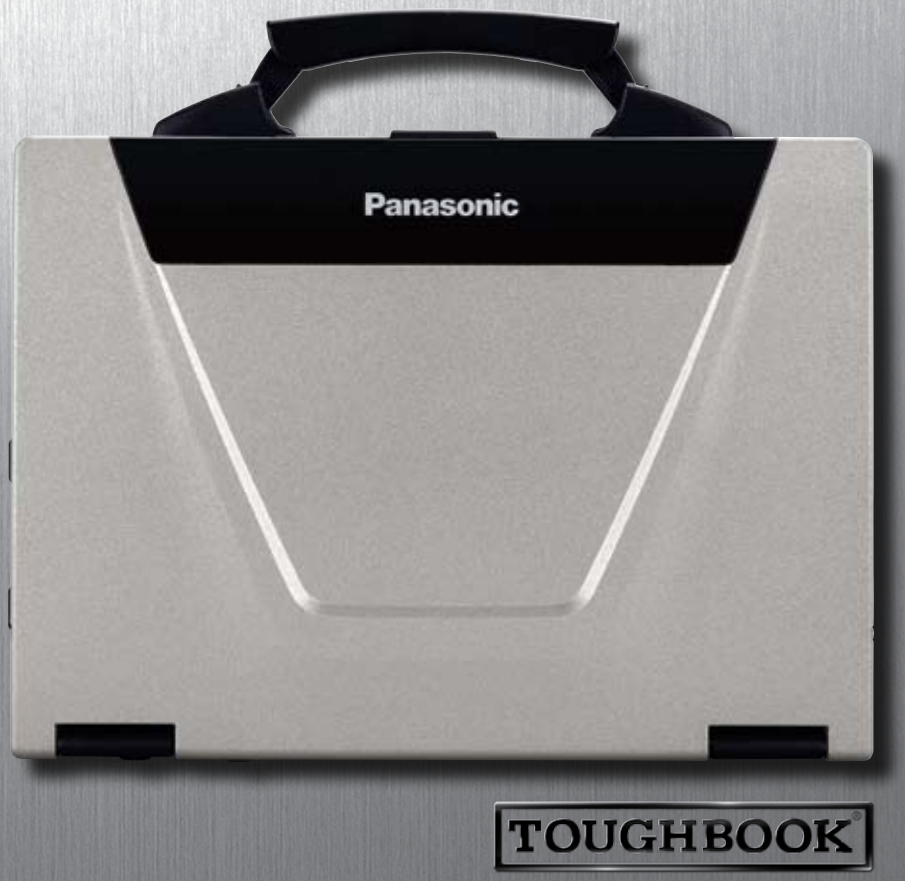
Windows®. Life without Walls™. Panasonic recommends Windows.

THE TOUGHBOOK 52

The only full-power desktop replacement laptop with legendary Toughbook durability.

In your world, what falls down must start up. Panasonic's semi-rugged Toughbook® 52 leads the way in reliability and performance, whether on your desk or on the road. With either a 15.4" widescreen or a 13.3" sunlight-viewable 1000 nit touchscreen, it's the ultimate business tool for group presentations and advanced technology to run multiple applications without a hitch. Add to that increased security and remote management with Intel® vPro™ technology. And optional embedded Gobi™ mobile broadband lets you work seamlessly pretty much anywhere.



Panasonic ideas for life

Windows®. Life without Walls™. Panasonic recommends Windows.

THE PANASONIC TOUGHBOOK 52.

SOFTWARE
- Varies by model—Genuine Windows® 7 Professional or Windows Vista® Business (both with XP downgrade option)
- Setup, Diagnostics, PC Information Viewer, Online Reference Manual, Adobe® Reader, Battery Recalibration Utility, Hard Disk Data Erase Utility, Recovery DVD, WinDVD® 8, Roxio Creator® LJB

CPU & DISPLAY
- Intel® Core™ i5-540M (2.53GHz, L3 3MB, vPro™)
  - 15.4" widescreen 1920 x 1200 WUXGA LCD
  - ATI Radeon™ HD5650, 512MB dedicated VRAM
- Intel® Core™ i5-520M (2.4GHz, L3 3MB, vPro™)
  - 15.4" widescreen 1280 x 800 WXGA LCD
  - Intel® QM57 video controller, max. 1024MB UMA VRAM on XP[3]
- Intel® Core™ 2 Duo P8400 (2.26GHz, L2 3MB, 1066MHz, vPro™)
  - 15.4" widescreen 1280 x 800 WXGA LCD
  - 13.3" touchscreen 1024 x 768 XGA sunlight-viewable 1000 nit LCD
  - Intel® GM45 video controller, max. 1024MB UMA VRAM on XP[3]
- External video support
- Anti-glare screen treatment
- Anti-reflective screen treatment*

STORAGE & MEMORY
- 2048MB SDRAM standard, expandable to 8192MB[1]
  - DDR3 (i5 CPU models)
  - DDR2 (P8400 CPU models)
- Shock-mounted flex-connect hard drive with quick-release
  - 160GB (520M and P8400 CPU) or 250GB (540M CPU) hard drive[2]

AUDIO
- Intel® high-definition audio compliant
- Integrated stereo speakers
- Convenient keyboard volume and mute controls

KEYBOARD & INPUT
- Touchscreen LCD (touchscreen model only)
- Integrated stylus holder (touchscreen model only)
- Adjustable dual overhead keyboard light (touchscreen model only)
- 87-key with dedicated Windows® key
- Electrostatic touchpad with scrolling support

MULTIMEDIA POCKET
- DVD Super MULTI Drive with Dual Layer Support

EXPANSION SLOTS
- PC card type II x 1
- SD card (SDHC)
- ExpressCard/54 x 1

INTERFACE

• Port replicator	Dedicated 100-pin
• External video	D-sub 15-pin
• Headphones/speaker	Mini-jack stereo
• Microphone/line in	Mini-jack stereo
• Serial	D-sub 9-pin
• USB 2.0 (x 4)	4-pin
• IEEE 1394a (FireWire)*	4-pin
• 10/100/1000 Ethernet	RJ-45
• 56K Modem*	RJ-11

WIRELESS
- Optional integrated Gobi™ mobile broadband
- Intel® Centrino® Advanced-N 6200 802.11a/b/g/n (i5 CPU models)
- Intel® Wireless WiFi Link 5100 802.11a/b/g/draft-n (P8400 CPU models)
- Optional Bluetooth®—standard on models with 540M CPU
  - Class 1, v2.1 + EDR (i5 CPU models)
  - Class 1, v2.0 + EDR (P8400 CPU models)
- Security
  - Authentication: LEAP, WPA, 802.1x, EAP-TLS, EAP-FAST, PEAP
  - Encryption: CKIP, TKIP, 128-bit and 64-bit WEP, Hardware AES
- Slide on/off switch

POWER SUPPLY
- Battery operation[4]:
  - 540M CPU—4 hours (with long life battery)
  - 520M and P8400 CPU—4.5 hours (with lightweight battery); 8-9 hours (with long life battery)
- Lightweight Li-Ion battery pack (11.1V, typical 5200mAh, minimum 5000mAh)
- Long life Li-Ion battery pack (11.1V, typical 7800mAh, minimum 7500mAh)
- Battery charging time: approximately 4 hours[4]
- AC Adapter: AC 100V—240V 50/60Hz, auto sensing/switching worldwide power supply
- Pop-up on-screen battery status reporting

POWER MANAGEMENT
- Suspend/Resume Function, Hibernation, Standby, ACPI BIOS

SECURITY FEATURES
- Password Security: Supervisor, User, Hard Disk Lock
- Cable lock slot
- Trusted platform module (TPM) security chip v.1.2
- Computrace® theft protection agent[5]
- Fingerprint reader (option)
- SmartCard reader (option)

WARRANTY
- 3-year limited warranty, parts and labor

DIMENSIONS & WEIGHT
- 11.3"(L) x 14.0"(W) x 2.0"(H)
- Weight varies by battery type:
  - 7.2 or 7.5 lbs. (without touchscreen)
  - 7.6 or 7.9 lbs. (with touchscreen)

INTEGRATED OPTIONS[6]
- Gobi™ mobile broadband (EV-DO Rev. A, HSPA)
- SmartCard reader
- Fingerprint reader

- *15.4" Widescreen or 13.3" Touchscreen LCD*
- *Magnesium Alloy Case with Handle*
- *Shock-mounted Flex-connect Hard Drive*
- *Drop and Spill-resistant*
- *Mobile Broadband-ready Design*

ACCESSORIES[6]

• AC Adapter (3-pin)	CF-AA5803AM
• Battery Charger	CF-VCBTB1W
• InfoCase ComUniversal Carrying Case (large capacity)	7540-P
• InfoCase ComUniversal Roller	TM-UNIVRLR-P
• InfoCase Backpack	TM-UNIVBPK-P
• InfoCase Always-on 52 Case	TM52-P
• Desktop Port Replicator	CF-VEB522M
• Lightweight Lithium Ion Battery Pack[5]	CF-VZSU65U
• Long Life Lithium Ion Battery Pack	CF-VZSU29ASU
• Memory Cards	
– 2GB DDR3 (i5 CPU models only)	CF-WMBA902G
– 4GB DDR3 (i5 CPU models only)	CF-WMBA904G
– 1GB DDR2 (P8400 CPU models only)	CF-WMBA801G
– 2GB DDR2 (P8400 CPU models only)	CF-WMBA802G
– 4GB DDR2 (P8400 CPU models only)	CF-WMBA804G
• Touchscreen Replacement Stylus	CF-VNP009U
• 13.3" LCD Protector Film	CF-VPF14U

Please consult your reseller or Panasonic representative before purchasing.

[1]Total usable memory will be less depending upon actual system configuration. 8192MB of memory is not available on all models and operating systems.

[2]1GB = 1,000,000,000 bytes.

[3]The size of the VRAM cannot be set by the user and varies by operating system as well as size of RAM. Windows 7 max. VRAM is 763MB with 2GB of memory, or 1435MB with 4GB of memory.

[4]Battery performance features such as charge time and life span can vary according to the conditions under which the computer and battery are used. Battery operation and recharge times will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Battery testing results from MobileMark 2007.

[5]Requires software and activation to enable theft protection.

[6]Accessories and Integrated Options may vary depending on your notebook configuration.

*Not available on P8400 model with lightweight battery standard.

1.800.662.3537 / panasonic.com/toughbook/52

Financing options now available from Panasonic Finance Solutions; please call number above for more details.

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Panasonic ideas for life

Cisco Compatible

intel CORE i5 inside Protect. Manage.

TOUGHBOOK®